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(FILE 'HOME' ENTERED AT 17:37:00 ON 25 NOV 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 17:37:14 ON 25 NOV 2002

L1 51652 S SPONGE
L2 124938 S (CONCENTRAT? OR RECOVER?) (5A) (METAL OR MINERAL OR GOLD OR SIL
L3 248 S L1 AND L2
L4 91 S L1(S)L2
L5 80 DUP REM L4 (11 DUPLICATES REMOVED)

=> d au ti so 1-30 15

L5 ANSWER 1 OF 80 MEDLINE DUPLICATE 1
AU Mi Fwu-Long; Wu Yu-Bey; Shyu Shin-Shing; Schoung Jen-Yu; Huang Yaw-Bin;
TSai Yi-Hung; Hao Jong-Yun
TI Control of wound infections using a bilayer chitosan wound dressing with
sustainable antibiotic delivery.
SO JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, (2002 Mar 5) 59 (3) 438-49.
Journal code: 0112726. ISSN: 0021-9304.

L5 ANSWER 2 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Natorkhin, M. I.
TI Recovery of metallic silver in hydrometallurgical processing of lead-zinc
ores
SO Izvestiya Vysshikh Uchebnykh Zavedenii, Tsvetnaya Metallurgiya (2002),
(2), 14-17
CODEN: IVUTAK; ISSN: 0021-3438

L5 ANSWER 3 OF 80 MEDLINE DUPLICATE 2
AU Webster N S; Webb R I; Ridd M J; Hill R T; Negri A P
TI The effects of copper on the microbial community of a coral reef sponge.
SO ENVIRONMENTAL MICROBIOLOGY, (2001 Jan) 3 (1) 19-31.
Journal code: 100883692. ISSN: 1462-2912.

L5 ANSWER 4 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Shannon, John N.; Huffman, John R.
TI Methods and organisms for concentrating and recovering metals and minerals
from aqueous media
SO PCT Int. Appl., 15 pp.
CODEN: PIXXD2

L5 ANSWER 5 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
AU Yamaoka Y (Reprint); Fuse H; Murakami K; Carmona M L; Oclarit J; Ootani T
TI Use of sponge as an adsorbent of Cd, Cu, Ni, Co ions in water
SO NIPPON KAGAKU KAISHI, (SEP 2000) No. 9, pp. 651-656.
Publisher: CHEMICAL SOC JAPAN, 1-5 KANDA-SURUGADAI CHIYODA-KU, TOKYO 101,
JAPAN.
ISSN: 0369-4577.

L5 ANSWER 6 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Raghavan, R.
TI Development of innovative, eco-friendly and economic technologies for
wealth processing at Hindustan Zinc Limited, Visakhapatnam
SO Publications of the Australasian Institute of Mining and Metallurgy
(2000), 5/2000(MINPREX 2000), 147-167
CODEN: AIMMEM; ISSN: 1324-6240

L5 ANSWER 7 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
AU Raghavan R (Reprint); Mohanan P K; Swarnkar S R
TI Hydrometallurgical processing of lead-bearing materials for the recovery
of lead and silver as lead concentrate and lead metal
SO HYDROMETALLURGY, (DEC 2000) Vol. 58, No. 2, pp. 103-116.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
NETHERLANDS.
ISSN: 0304-386X.

- L5 ANSWER 8 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Riviere, John; Ren, Jian Min
TI Cartridge-flow filters with steel wool and inert fibers for recovery of
silver from spent solutions
SO U.S., 11 pp.
CODEN: USXXAM
- L5 ANSWER 9 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Sekiguchi, Tomoo; Kazama, Toshiaki
TI Method for removal of thallium from cadmium-containing **metals**
and **recovery** of thallium from **sponge** cadmium
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
- L5 ANSWER 10 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Huang, Zhongmiao; Wang, Hanyuan; Jiang, Peihai; Zhang, Yinsheng
TI Hydrometallurgical process for slurry electrolysis of copper nickel high
grade matte
SO Kuangye (Beijing) (1999), 8(2), 39-43
CODEN: KUANEN; ISSN: 1005-7854
- L5 ANSWER 11 OF 80 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 3
AU Raghavan, R.; Mohanan, P. K.; Patnaik, S. C.
TI Innovative processing technique to produce zinc concentrate from zinc
leach residue with simultaneous recovery of lead and silver
SO Hydrometallurgy (1998), 48(2), 225-237
CODEN: HYDRDA; ISSN: 0304-386X
- L5 ANSWER 12 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
AU Barakat M A (Reprint)
TI Recovery of lead, tin and indium from alloy wire scrap
SO HYDROMETALLURGY, (JUN 1998) Vol. 49, No. 1-2, pp. 63-73.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
NETHERLANDS.
ISSN: 0304-386X.
- L5 ANSWER 13 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Mohanan, P. K.; Raghavan, R.; Patnaik, S. C.
TI Hydrometallurgical extraction and recovery of silver from silver
concentrate generated at the zinc electrowinning plant
SO NML Technical Journal (1997), 39(2), 77-86
CODEN: NLMJA3; ISSN: 0027-6839
- L5 ANSWER 14 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Ootsuka, Kenji; Kamei, Masaru; Kobayashi, Hiroaki; Kinoshita, Jusuke
TI Apparatus for softening water with ion exchange resins
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
- L5 ANSWER 15 OF 80 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE
4
AU Bargagli, R. (1); Nelli, L.; Ancora, S.; Focardi, S.
TI Elevated cadmium accumulation in marine organisms from Terra Nova Bay
(Antarctica).
SO Polar Biology, (1996) Vol. 16, No. 7, pp. 513-520.
ISSN: 0722-4060.
- L5 ANSWER 16 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
AU RAMACHANDRAN P (Reprint); VENKATESWARAN K V; NANDAKUMAR V
TI ACTIVATED LEAD ELECTRODE FOR ELECTROWINNING OF METALS

- SO BULLETIN OF ELECTROCHEMISTRY, (MAY/JUN 1996) Vol. 12, No. 5-6, pp.
346-348.
ISSN: 0256-1654.
- L5 ANSWER 17 OF 80 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 5
AU Richelle, E.; Degoudenne, Y.; Dejonghe, L.; Van de Vyver, G.
TI Experimental and field studies on the effect of selected heavy metals on
three freshwater sponge species: Ephydatia fluviatilis, Ephydatia muelleri
and Spongilla lacustris
SO Archiv fuer Hydrobiologie (1995), 135(2), 209-31
CODEN: AHYBA4; ISSN: 0003-9136
- L5 ANSWER 18 OF 80 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Hansen, Inge V.; Weeks, Jason M. (1); Depledge, Michael H.
TI Accumulation of copper, zinc, cadmium and chromium by the marine sponge
Halichondria panicea Pallas and the implications for biomonitoring.
SO Marine Pollution Bulletin, (1995) Vol. 31, No. 1-3, pp. 133-138.
ISSN: 0025-326X.
- L5 ANSWER 19 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Rainer, Norman B.
TI Process for recovering silver from photographic chemical effluent
SO U.S., 3 pp. Cont.-in-part of U.S. 5, 187, 200.
CODEN: USXXAM
- L5 ANSWER 20 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Nakamura, Takashi; Myazaki, Hideo
TI Apparatus and methods for detection of silver in recovery of silver in
photographic processed waste solutions
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
- L5 ANSWER 21 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
AU COLLINS K J (Reprint); JENSEN A C; LOCKWOOD A P M; TURNPENNY A W H
TI EVALUATION OF STABILIZED COAL-FIRED POWER-STATION WASTE FOR ARTIFICIAL
REEF CONSTRUCTION
SO BULLETIN OF MARINE SCIENCE, (SEP 1994) Vol. 55, No. 2-3, pp. 1251-1262.
ISSN: 0007-4977.
- L5 ANSWER 22 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Richelle-Maurer, E.; Degoudenne, Y.; Van de Vyver, G.; Dejonghe, L.
TI Some aspects of heavy metal tolerance in freshwater sponges
SO Sponges Time Space, Proc. Int. Porifera Congr., 4th (1994), Meeting Date
1993, 351-4. Editor(s): Van Soest, Rob W. M.; Van Kempen, Theo M. G.;
Braekman, Jean-Claude. Publisher: Balkema, Rotterdam, Neth.
CODEN: 60FOA9
- L5 ANSWER 23 OF 80 CAPLUS COPYRIGHT 2002 ACS
AU Pchelkin, S. A.
TI Effect of the quality of concentrates and raw and fired pellets on
metalization indexes in shaft furnaces
SO Stal' (1993), (6), 16-18
CODEN: STALAQ; ISSN: 0038-920X
- L5 ANSWER 24 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Abodishish, Hani A. M.; Adams, R. James; Kearl, Steven R.
TI Recovery of magnesium reducing agent in manufacture of zirconium and/or
hafnium sponge
SO U.S., 3 pp. Cont. of U.S. Ser. No. 446,769, abandoned.
CODEN: USXXAM
- L5 ANSWER 25 OF 80 CAPLUS COPYRIGHT 2002 ACS
IN Zakrzewski, Jerzy; Karpiuk-Kokosinska, Maria; Zawadka, Marian; Chmielarz,

Andrzej; Gluszczyzyn, Andrzej T.; Benke, Grzegorz; Anyszkiewicz, Krystyna
 TI Production of noble metal concentrates from refining wastes
 SO Pol., 4 pp.
 CODEN: POXXA7

L5 ANSWER 26 OF 80 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AU ORSON R A; SIMPSON R L; GOOD R E
 TI A MECHANISMS FOR THE ACCUMULATION AND RETENTION OF HEAVY METALS IN TIDAL
 FRESHWATER MARSHES OF THE UPPER DELAWARE RIVER ESTUARY.
 SO ESTUARINE COASTAL SHELF SCI, (1992) 34 (2), 171-186.
 CODEN: ECSSD3. ISSN: 0272-7714.

L5 ANSWER 27 OF 80 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AU Strom, Richard N. (1); Braman, Robert S.; Jaap, Walter C.; Donan, Paula;
 Donnelly, Kelly Boomer; Martin, Dean F.
 TI Analysis of selected trace metals and pesticides offshore of the Florida
 Keys.
 SO Florida Scientist, (1992) Vol. 55, No. 1, pp. 1-13.
 ISSN: 0098-4590.

L5 ANSWER 28 OF 80 CAPLUS COPYRIGHT 2002 ACS
 IN Wahlquist, Randy W.; Reinarts, John M.; Francis, Timothy L.
 TI Zirconium and hafnium **recovery** from **sponge**
metal fines
 SO U.S., 3 pp.
 CODEN: USXXAM

L5 ANSWER 29 OF 80 CAPLUS COPYRIGHT 2002 ACS
 IN Rainer, Norman B.
 TI Polymer-treated sponge product for selective absorption of metal ions
 SO Can. Pat. Appl., 26 pp.
 CODEN: CPXXEB

L5 ANSWER 30 OF 80 SCISEARCH COPYRIGHT 2002 ISI (R)
 AU KANAYAMA H (Reprint); KUSAMICHI T; MURAOKA T; ONOUE T; NISHIMURA T
 TI ELECTRON-BEAM MELTING OF SPONGE TITANIUM
 SO ISIJ INTERNATIONAL, (1991) Vol. 31, No. 8, pp. 906-914.

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L5 ANSWER 19 OF 80 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:249855 CAPLUS
 DN 120:249855
 TI Process for recovering silver from photographic chemical effluent
 IN Rainer, Norman B.
 PA USA
 SO U.S., 3 pp. Cont.-in-part of U.S. 5, 187, 200.
 CODEN: USXXAM

DT Patent
 LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5294652	A	19940315	US 1993-19287	19930218
	US 5187200	A	19930216	US 1991-808884	19911218
PRAI	US 1991-808884		19911218		
	US 1991-668929		19910313		

L5 ANSWER 28 OF 80 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:496370 CAPLUS
 DN 115:96370
 TI Zirconium and hafnium **recovery** from **sponge**
metal fines

IN Wahlquist, Randy W.; Reinarts, John M.; Francis, Timothy L.
 PA Westinghouse Electric Corp., USA
 SO U.S., 3 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5017219	A	19910521	US 1990-526739	19900521

L5 ANSWER 29 OF 80 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:518065 CAPLUS
 DN 115:118065
 TI Polymer-treated sponge product for selective absorption of metal ions
 IN Rainer, Norman B.
 PA USA
 SO Can. Pat. Appl., 26 pp.
 CODEN: CPXXEB

DT Patent
 LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CA 2023387	AA	19910219	CA 1990-2023387	19900816
	US 5002984	A	19910326	US 1989-395535	19890818
	US 5096946	A	19920317	US 1990-561007	19900731
	AU 9061034	A1	19910221	AU 1990-61034	19900815
	AU 635302	B2	19930318		
	JP 03185024	A2	19910813	JP 1990-216949	19900817
	US 5162404	A	19921110	US 1991-660795	19910225
	US 5064540	A	19911112	US 1991-672124	19910319
PRAI	US 1989-395535		19890818		

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L1 51652 S SPONGE
L2 124938 S (CONCENTRAT? OR RECOVER?) (5A) (METAL OR MINERAL OR GOLD OR SIL
L3 248 S L1 AND L2
L4 91 S L1(S)L2
L5 80 DUP REM L4 (11 DUPLICATES REMOVED)
L6 7742 S MARINE(4A) SPONGE
L7 8 S L6 AND L2
L8 4 DUP REM L7 (4 DUPLICATES REMOVED)
L9 47985 S SEA(W) WATER
L10 51652 S SPONGE
L11 1 S L3 AND L9
L12 159 S L1 AND L9
L13 3277583 S METAL OR MINERAL OR GOLD OR SILVER OR CUPPER
L14 15 S L12 AND L13
L15 13 DUP REM L14 (2 DUPLICATES REMOVED)

=> d au ti so 1-13 l15

L15 ANSWER 1 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

1
AU Eashwar, M. (1); Maruthamuthu, S.; Iyer, S. Venkatakrisna
TI Progressions of phototrophic bacteria and sulphur chemistry in
decomposition models.
SO Current Science (Bangalore), (10 February, 2002) Vol. 82, No. 3, pp.
329-333. print.
ISSN: 0011-3891.

L15 ANSWER 2 OF 13 SCISEARCH COPYRIGHT 2002 ISI (R)

AU Bett B J (Reprint)
TI UK Atlantic Margin Environmental Survey: Introduction and overview of
bathyal benthic ecology
SO CONTINENTAL SHELF RESEARCH, (MAY-JUN 2001) Vol. 21, No. 8-10, pp. 917-956.
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND.
ISSN: 0278-4343.

L15 ANSWER 3 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AU Mohapatra, B. R.; Bapuji, M. (1)
TI Characterization of acetylcholinesterase from *Arthrobacter ilicis*
associated with the marine **sponge** (*Spirastrella* sp.
SO Journal of Applied Microbiology, (March, 1998) Vol. 84, No. 3, pp.
393-398.
ISSN: 1364-5072.

L15 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS

IN Hilbertz, Wolf H.; Goreau, Thomas J.
TI Method of enhancing the growth of aquatic organisms and structures created
thereby
SO U.S., 14 pp., Cont.-in-part of U.S. Ser. No. 374,993, abandoned.
CODEN: USXXAM

L15 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2002 ACS

IN Mao, Tian Der
TI Cathodic protection of **metal** surfaces
SO Brit. UK Pat. Appl., 8 pp.
CODEN: BAXXDU

- L15 ANSWER 6 OF 13 MEDLINE
 AU Patel B; Patel S; Balani M C
 TI Can a **sponge** fractionate isotopes?
 SO PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON. SERIES B: BIOLOGICAL SCIENCES,
 (1985 Mar 22) 224 (1234) 23-41.
 Journal code: 7505889. ISSN: 0962-8452.
 Report No.: NASA-85190637.
- L15 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Froget, Claude
 TI Observations on the alteration of silica and silicates during carbonate
 lithification (Sicily-Tunisia region)
 SO Geol. Mediterr. (1976), 3(4), 219-25
 CODEN: AUPGDY
- L15 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Horn, Merlin E.; Chapman, Stanley L.
 TI Clay mineralogy of some acid sulfate soils on the Guinea coast
 SO Trans., Int. Congr. Soil Sci., 9th (1968), Volume 3, 31-40
 CODEN: 21SPA4
- L15 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Harder, Hermann
 TI Precipitation of silica under natural conditions
 SO Sprechsaal Keram., Glas, Email, Silik. (1966), 99(22), 1005-10
 CODEN: SFKGAV
- L15 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Malyshek, V. T.
 TI Terrigenous and authigenic **minerals** in the Neogene of the Kuban
 Region and their significance in paleogeographic studies
 SO Tr. Vses. Neftegaz. Nauchn.-Issled. Inst., Krasnodarsk. Filial (1962),
 (No. 10), 207-12
- L15 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU El Wardani, S. A.
 TI Marine geochemistry of germanium and the origin of Pacific pelagic clay
minerals
 SO Geochim. et Cosmochim. Acta (1958), 15, 237-54
- L15 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Dechaux, G.
 TI Protection of steel hulls against the destructive action of the sea by
 paint
 SO Peintures, pigments, vernis (1942), 17, 251-60, 732-7, 758-69
- L15 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
 AU Noddack, Ida; Noddack, Walter
 TI The occurrence of the heavy **metals** in marine animals
 SO Arkiv Zool. (1939), 32A(No. 1;Contrib. No. 4), 35 pp.

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